

WHAT IS CLAIMED IS:

1. An accommodating intraocular lens for implantation in an eye having an optical axis, said lens comprising:

an anterior viewing element comprised of an optic having refractive power of less than 55 diopters;

a posterior viewing element comprised of an optic having refractive power, said optics providing a combined power of 15-25 diopters, said optics mounted to move relative to each other along the optical axis in response to a contractile force by the ciliary muscle of the eye upon the capsular bag of the eye, said relative movement corresponding to change in the combined power of the optics of at least one diopter.

2. The lens of Claim 1, wherein said optics are mounted to move relative to each other along the optical axis in response to a contractile force by the ciliary muscle of the eye upon the capsular bag of the eye of up to 2.0 grams.

3. The lens of Claim 1, wherein said anterior viewing element comprises an optic having a refractive power of less than 40 diopters.

4. The lens of Claim 1, wherein said anterior viewing element comprises an optic having a refractive power of less than 35 diopters.

5. The lens of Claim 1, wherein said anterior viewing element comprises an optic having a refractive power of less than 30 diopters.

6. The lens of Claim 1, wherein said posterior viewing element comprises an optic having a refractive power between -25 and 0 diopters.

7. The lens of Claim 1, wherein said posterior viewing element comprises an optic having a refractive power between -25 and -15 diopters.

8. The lens of Claim 1, wherein said posterior viewing element comprises an optic having a refractive power between -15 and 0 diopters.

9. The lens of Claim 1, wherein said posterior viewing element comprises an optic having a refractive power between -13 and -2 diopters.

10. The lens of Claim 1, wherein said posterior viewing element comprises an optic having a refractive power between -10 and -5 diopters.

11. The lens of Claim 1, wherein said relative movement of said optics includes an accommodated position and an unaccommodated position, said optics being about 0.5 - 4 millimeters closer together when in the unaccommodated position.

12. The lens of Claim 1, wherein said relative movement of said optics includes an accommodated position and an unaccommodated position, said optics being about 1 - 3 millimeters closer together when in the unaccommodated position.

13. The lens of Claim 1, wherein said relative movement of said optics includes an accommodated position and an unaccommodated position, said optics being about 1 - 2 millimeters closer together when in the unaccommodated position.

14. The lens of Claim 1, wherein said relative movement of said optics includes an accommodated position and an unaccommodated position, said optics being about 1.5 millimeters closer together when in the unaccommodated position.

15. The lens of Claim 1, wherein:

said lens has a thickness between an anterior face of the anterior viewing element and a posterior face of the posterior viewing element;

said relative movement of said optics includes an accommodated position and an unaccommodated position; and

said thickness decreases from about 3.0 - 4.0 millimeters in the accommodated position to about 1.5 - 2.5 millimeters in the unaccommodated position.

16. The lens of Claim 13, wherein:

said lens has a thickness between an anterior face of the anterior viewing element and a posterior face of the posterior viewing element;

said relative movement of said optics includes an accommodated position and an unaccommodated position; and

said thickness decreases from about 3.0 - 4.0 millimeters in the accommodated position to about 1.5 - 2.5 millimeters in the unaccommodated position.

17. The lens of Claim 14, wherein:

said lens has a thickness between an anterior face of the anterior viewing element and a posterior face of the posterior viewing element;

said relative movement of said optics includes an accommodated position and an unaccommodated position; and

said thickness decreases from about 3.0 - 4.0 millimeters in the accommodated position to about 1.5 - 2.5 millimeters in the unaccommodated position.